

Headquarters U. S. Air Force

Integrity - Service - Excellence

Air Force Command & Control and Intelligence, Surveillance & Reconnaissance Center



***Mr Bobby Greathouse
DoDIIS Technical Director***

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Overview



- ***TPOC Introduction***
- ***Background on the AFC2&ISR Center***
- ***The DoDIIS Test and Evaluation Process***



Test Process Oversight Committee (TPOC)

Who Are We?

- **Forum for the test agencies, Program Management Offices (PMOs), and users**
- **Ensures comprehensive and coordinated test program for the DoDIIS IMA Certification Process.**

Why Are We Here?

- **Support DExA in documenting DoDIIS requirements for Beta I/II testing, interoperability, security, and training certification**
- **Support test agencies (JITF, JITC, Security, Training) in development of test plans and requirements**
- **Support DExA for T&E in identifying and documenting new DoDIIS test requirements**



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Air Force C2 & ISR Center Evolution

<i>Activity</i>	<i>Charter</i>	<i>Commencement</i>	<i>Organization</i>
SAB 96	“Create C2 Enterprise”	Apr 97	Air & Space C2 Agency
Corona 97	“Create C2 Agency”	Jun 98	Aerospace C2 Agency
Corona 98	“Integrate USAF ISR”	Dec 98	Aerospace C2ISR Center
CSAF Dec 01 (AF/XI)	“Integrate Warfighting”	May 02	Warfighting Integration DCS Air Force C2&ISR Center

**AFC2ISRC
18 Locations
780 Personnel**



Langley AFB (Hampton), Virginia

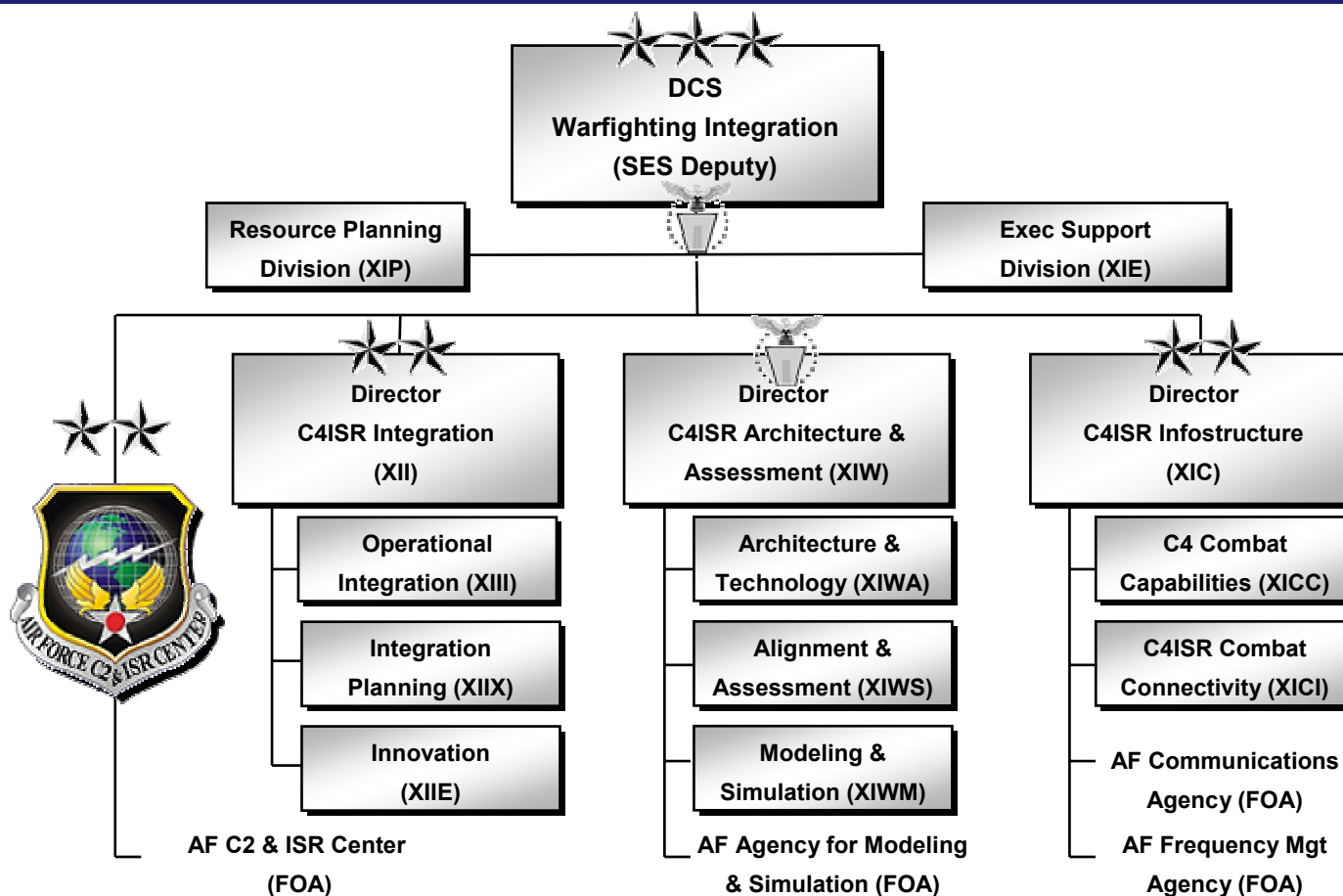
**Air Force C2 & ISR Center was Formed to Provide
Better Stewardship of Critical Resources**

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AF/XI Organization



AFC2ISRC Operates As A Field Operating Agency For AF/XI

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Transformation Strategy

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Global
Power



Global
Reach



Global
Vigilance



10 Air Expeditionary Forces



Air & Space Expeditionary Forces CONOPS

Global
Strike
Task
Force
CONOPS

Homeland
Security
Task
Force
CONOPS

Global
Mobility
Task
Force
CONOPS

Global
Response
Task
Force
CONOPS

Nuclear
Response
Task
Force
CONOPS

Air & Space
C2ISR
Task
Force
CONOPS

Other
CONOPS
TBD

Warfighting Integration can be a Transformer for All Task Forces

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AFC2ISRC Top Priorities

- **SECDEF's Top Ten (1 – 5)**
 - **Successfully Pursue the Global War on Terrorism**
 - Warfighter Support
 - **Strengthen Joint Warfighting Capabilities**
 - BMC4I
 - C2 Constellation
 - DCGS-X
 - DJC2
 - Task Force CONOPS
 - JEFX
 - CAOC-X
 - AOC WS
 - **Transform the Joint Force**
 - AOC WS
 - Joint Integration & Interoperability (JI&I) Support
 - **Optimize Intelligence Capabilities**
 - Predictive Battlespace Awareness
 - Family of Interoperable Operational Pictures (FIOP)
 - **Improve Force Manning**



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AFC2ISRC Top Priorities

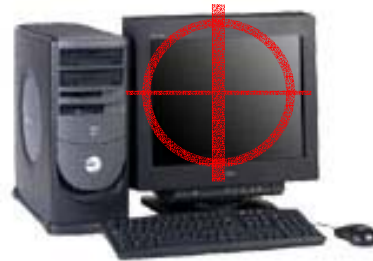
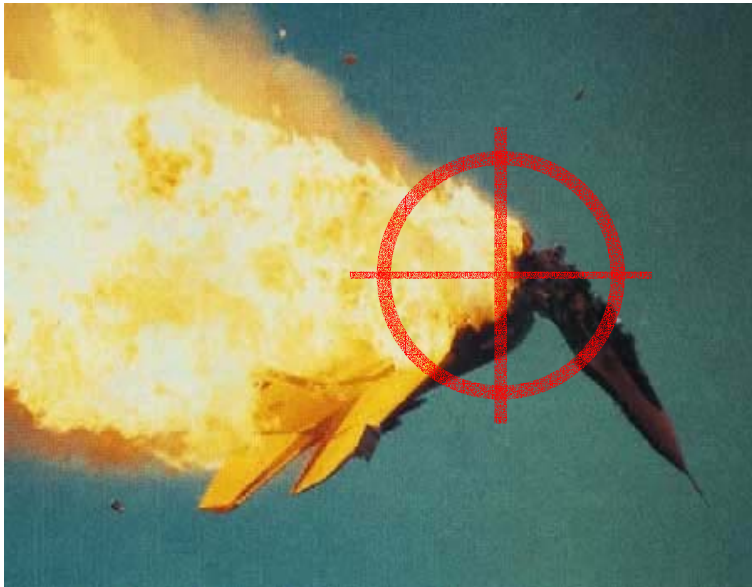
- **SECDEF's Top Ten (6 – 10)**
 - **New Concepts of Global Engagement**
 - C2 Constellation
 - Advanced Technology AOC
 - Global Information Grid
 - **Counter the Proliferation of WMD**
 - New ISR Sensors
 - **Homeland Security**
 - C2 Transformation Center
 - **Streamline DoD Processes**
 - AF/XI Investment Strategy for the FY06 POM
 - PPBS Transformation
 - **Improve Interagency Process, Focus and Integration**

BMC2 is the central nervous system of the integrated architecture that will meet these priorities.



...it's About Weapons on Target

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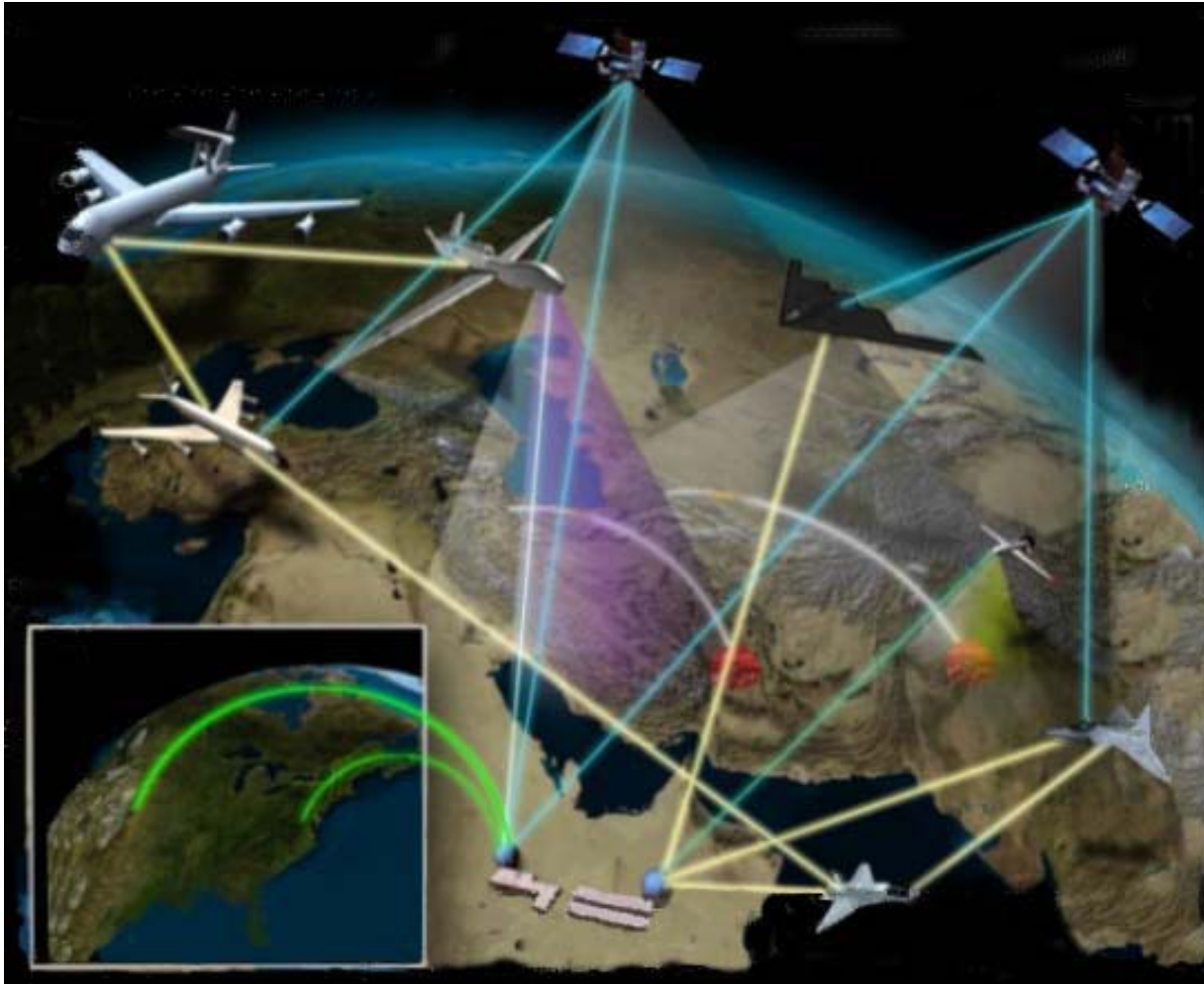


BMC2: People, processes, & technology

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Ultimate Goal: Think Bigger & Smarter



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Intelligence Directorate

AFC2ISRC/Intelligence Directorate

Resources

Intelligence Integration

AOC Intelligence Operations

ISR Operations

Plans & Force Modernization

Integration & Systems

Mission

- **Identify & validate service requirements for intel systems & capabilities**
- **Manage and advocate delivery of responsive intel system capabilities**
- **Manage selected DoDIIS GDIP & AF TIARA resources for ISR**
- **Modernize analysis, targeting & TPED into a managed info environment**
- **Integrate systems with overall DoD & Intel Community standards**

Top Priorities

ISR Manager

DCGS/DGS-X

JTT

DoDIIS

PBA

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Why is Testing Important?

Software Code

- “There’s a myth that if we were really good at programming, there would be no bugs to catch.”

Documentation

- “Errors in documentation can be as devastating ... as errors in data or source code. Nothing is more frustrating than following the user guide exactly and getting [incorrect] results.”

Importance of Testing

- However, it is impossible for a developer to catch all bugs in any software program or the accompanying documentation – that is why testing is vital to ensure software quality.



Why is Testing Important to DoD Intel Software?

DoDIIS Testing directly supports:

- **Intelligence Integration and interoperability for the Common Operational Picture (COP)**
 - DoDIIS Testing supports integration and interoperability of SCI systems
 - For SCI Systems to be interoperable with the COP, they must first be integrated and interoperable with one another.
- **Attack the Database Problem**
 - The only way to know if you've won the database war is to test software systems early and often
 - Independent testing is the "honest broker" who can offer a true measure of progress towards this goal.
- **Maintain security and provide proper safeguard of sensitive information**



The Current State of the DoDIIS Testing

- The current DoDIIS Test Process has been in place since 1996
- The process includes independent installation, integration, infrastructure compliance, interoperability, security, and operation site acceptance testing
- The process has tested over 185 releases of different software applications through the end of FY02 including:
 - Imagery and message databases
 - Communications processors and handlers
 - Collaborative, web-based and enterprise applications
- By the end of FY02, an estimated 39 software applications will be officially certified under the DoDIIS Certification Process



Why is Testing Still Necessary?

- **Program reliability/maintainability has measurably improved**
 - FY99: Programs met 73.16% of JITF requirements
 - FY00: Programs met 77.88% of JITF requirements
 - FY01: Programs met 78.65% of JITF requirements
 - FY02: Programs met 83.00% of JITF requirements
- **Many existing programs are making major changes such as moving to web-based architectures**
- **Continued VIGILANCE is necessary to MITIGATE RISK**

Science of Control Enables the Art of Command



***Through Experimentation
We Discover The “Best Of Breed”***

